

**Remarks**

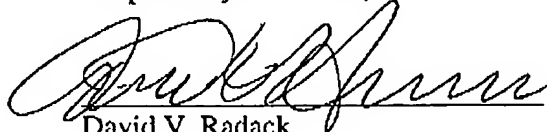
This Second Preliminary Amendment of previously presented claim 1 deletes a listing of several specific mathematical methods and adds such methods to previously presented claim 3. Claim 20 is herein amended to recite that the at least one analysis unit further analyzes at least one of the primary elements in a higher level of resolution and to delete the choice of mathematical methods that may be used to provide the higher level of resolution. Original and previously presented systems claims 14, 17, 23, 24, 29, 31, 32, and 36 are herein amended to replace method phraseology in the claims with more appropriate and unambiguous systems phraseology. Claim 27 is amended to correct a lack of antecedent basis for "said at least one implantable acquisition device" in last paragraph of the claim. New claims 47-61 are added to provide more comprehensive coverage for the invention. Claims 49-60 are identical to claims 8-13, 15, 17, 34, 36, and 37 except that they depend from claim 47 instead of claim 7. Claim 38 is withdrawn without prejudice.

Support for the new claims is found throughout the specification and in Figs. 1 and 2.

The addition of new claims 47 through 61, which includes two independent claims (claims 47 and 61), results in extra claims fees. A Fee Transmittal form and a Credit Card Payment form for \$575 are enclosed (fifteen claims x \$25 = \$375 and two independent claims x \$100 = \$200).

Please examine this application in view of the above amendments.

Respectfully submitted,



David V. Radack  
Registration No. 33,442  
Attorney for Applicant

(412) 566-6777